

Please type a plus sign (+) inside this box →



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for Form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete If Known</b>	
Application Number					
Filing Date		02/11/02			
First Named Inventor		James T. Aslanis, et al.			
Group Art Unit					
Examiner Name					
Sheet	1	of	1	Attorney Docket No.	TI-27730A.1A

1917 U.S. PTO  
 10/07/9942  
 02/11/02

**U.S. PATENT DOCUMENTS**

Exam. Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Doc.	Date of Pub. of Cited Doc. (mm-dd-yyyy)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
<del>AD</del>	AA	4,450,558		Hampton et al.	05/1984	I
	AB	4,644,523		Horwitz	02/1987	
	AC	5,170,413		Hess et al.	12/1992	
	AD	5,305,349		Dent	04/1994	
	AE	5,345,440		Gledhill et al.	09/1994	
	AF	5,440,561		Werronen	08/1995	
	AG	5,444,697		Leung et al.	08/1995	
	AH	5,590,160		Ostman	12/1996	
	AI	5,666,378		Marchetto et al.	09/1997	
	AJ	5,673,296		Ohgane	09/1997	

**FOREIGN PATENT DOCUMENTS**

Exam. Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Doc.	Date of Pub. of Cited Doc. (mm-dd-yyyy)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)				
	BA	WIPO	WO 95/05042			02/1995	I	
	BB	EPO	EP 0 529 421 A2			03/03/93		
	BC	WIPO	WO 93/09617			05/13/93		
	BD	WIPO	WO 95/03656 A1			02/95		
	BE							
	BF							
	BG							
	BH							
	BI							

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Exam. Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<del>AD</del>	CA	Leonard J. Cimini, Jr., "Analysis and Simulation of a Digital Mobile Channel Using Orthogonal Frequency Division Multiplexing," Jul. 7, 1985, IEEE Transactions on Communications, vol. COM-33, No. 7	
	CB	John A.C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come," May 1990, pp. 5-14	
	CC	Chow et al., "DMT Initialization: Parameters needed for Specification in a Standard," Mar. 1993, pp. 1-8, T1E1.4, ANSI Standards Committee (Submission T1E1.4/93-0222).	
	CD	Chow et al., "A Discrete Multitone Transceiver System for HDSL Applications," IEEE Journ. on Sel. areas in Comm., vol. 9, No. 6, Aug. 1991, pp. 895-908	
	CE	Chow et al. "Equalizer Training Algorithms for Multicarrier Modulation," (1993), pp. 761-765	
	CF	Kirkman et al., "Detection of Characteristic Phases Using FFT's," International Conference on Acoustics, Speech and Signal Processing IEEE, 3/92	
	CG		
	CH		

Examiner Signature		Date Considered	5.28.04
-----------------------	--	--------------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English Translation is attached.

#1064  
4.10.04

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Approved for use through 06/30/2008, OMB 0851-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1448B/PTO		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/074,942
		Filing Date	February 11, 2002
		First Named Inventor	ASLANIS
		Art Unit	2634
		Examiner Name	Le
		Attorney Docket Number	TI-27720A.1A
Sheet	1	of	2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T*
AS		Proakis, <u>Digital Communications</u> , 2d ed. (McGraw-Hill, Inc., 1989), pp. 396-99 and 862-65.	
		Cioffi et al., "DMT Specification Overview for ADSL", Submission TIE1.4/93-083 to the TIE1.4 Working Group of Committee T1, sponsored by the Alliance for Telecommunications Information Solutions and accredited by the American National Standards Institute (April 15, 1993).	
		Cioffi et al., "Detailed DMT Transmitter Description for ADSL", Submission TIE1.4/93-084 to the TIE1.4 Working Group of Committee T1, sponsored by the Alliance for Telecommunications Information Solutions and accredited by the American National Standards Institute (April 15, 1993).	
		Chow et al., "Recommended Reverberation Training Sequence-Revision 1", Submission TIE1.4/93-086-R1 to the TIE1.4 Working Group of Committee T1, sponsored by the Alliance for Telecommunications Information Solutions and accredited by the American National Standards Institute (May 10, 1993).	
AS		Cioffi et al., "Recommended Training Sequence for SNR Computation with DMT ADSL", Submission TIE1.4/93-087 to the TIE1.4 Working Group of Committee T1, sponsored by the Alliance for Telecommunications Information Solutions and accredited by the American National Standards Institute (May 10, 1993).	
Examiner Signature	Amandale		Date Considered 05.28.04

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 606: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

† Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.67 and 1.68. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1480, Alexandria, VA 22313-1480. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/08b (08-03)

Approved for use through 06/30/2008. OMB 0581-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1986, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/074,942
		Filing Date	February 11, 2002
		First Named Inventor	Aslanis
		Art Unit	2634
		Examiner Name	Le
Sheet	2	of	2
		Attorney Docket Number	TI-27730A11A

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
AS		Cioffi et al., "Modification to DMT Synchronization Pattern Insertion", Submission T1E1.4/93-089 to the T1E1.4 Working Group of Committee T1, sponsored by the Alliance for Telecommunications Information Solutions and accredited by the American National Standards Institute (April 15, 1993).	
		Chow, "Recommended Reweille Sequence for DMT ADSL", Submission T1E1.4/93-114 to the T1E1.4 Working Group of Committee T1, sponsored by the Alliance for Telecommunications Information Solutions and accredited by the American National Standards Institute (May 10, 1993).	
		Bingham, "Proposed Standard: Sections 6.6-6.10 & 7.6-7.10 Encoders, Modulators, Cyclic Prefices, DACs, and Anti-aliasing Filters", Submission T1E1.4/93-120 to the T1E1.4 Working Group of Committee T1, sponsored by the Alliance for Telecommunications Information Solutions and accredited by the American National Standards Institute (May 10, 1993).	
AS		"Asymmetric Digital Subscriber Line (ADSL) WORKING DRAFT Standard", Marshall, ed., (T1E1.4 Working Group of Committee T1, November 15, 1993).	

Examiner Signature	<i>Amandate</i>	Date Considered	05.28.04
--------------------	-----------------	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 808. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO, to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1480, Alexandria, VA 22313-1480. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1480, Alexandria, VA 22313-1480.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.